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Proof, December 9-11, 2004

Theatre Arts Discipline

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Meiningens Student Theatre

in association with

The University of Minnesota, Morris

Theatre Discipline

presents

Consider $u^T(c - \frac{e}{2}) = x_1 b^T \bar{X}(c - \frac{e}{2}) + x_2 (b^T \bar{X}D - b^T D\bar{X})(c - \frac{e}{2}) + x_3 b^T \bar{X}^2 c$

$$= -\frac{x_1}{12} + x_2 \frac{b^T \bar{X}e}{12} - x_3 \frac{b^T \bar{X}e}{12} = 0 \quad (1)$$

[the follow from the "butcher" conditions]

$$\begin{bmatrix} b^T \bar{X}(c - \frac{e}{2}) = -\frac{x_1}{12} \\ b^T \bar{X}D(c - \frac{e}{2}) = -\frac{x_2}{12} \\ b^T D\bar{X}(c - \frac{e}{2}) = -\frac{x_3}{12} \end{bmatrix}$$

Next consider

$$u^T(c^2 - \frac{e^2}{3}) = x_1 b^T \bar{X}(c^2 - \frac{e^2}{3}) + x_2 (b^T \bar{X}D - b^T D\bar{X})(c^2 - \frac{e^2}{3}) + x_3 b^T \bar{X}^2 c^2$$
$$= -\frac{x_1}{12} + x_2 \left(\frac{b^T \bar{X}e}{12} + \frac{b^T \bar{X}e}{12} \right) + x_3 \left(\frac{b^T \bar{X}e}{12} \right) = 0 \quad (2)$$

Finally, consider

$$u^T(c^3 - \frac{e^3}{6}) = x_1 b^T \bar{X}(c^3 - \frac{e^3}{6}) + x_2 b^T (\bar{X}D - D\bar{X})(c^3 - \frac{e^3}{6}) + x_3 b^T \bar{X}^2 (c^3 - \frac{e^3}{6})$$
$$= -\frac{x_1}{12} + x_2 \left(\frac{b^T \bar{X}e}{12} - \frac{1}{24} \right) + x_3 \left(\frac{1}{24} - \frac{b^T \bar{X}e}{12} \right) \quad (3)$$

December 9-11, 2004

Thursday and Friday at 7:30 p.m.

Saturday at 2:00 p.m. & 7:30 p.m.

Black Box Theatre

Humanities-Fine Arts Building, UMM

Cast of Characters

in order of appearance

Robert Nick Lostetter
Catherine Lisa Burton
Hal Peter Ray
Claire Jennifer Farrell

Setting: The back porch of a house in Chicago.

Act I

Scene 1: *Night*
Scene 2: *The following morning*
Scene 3: *That night*
Scene 4: *The following morning*

~ Fifteen-minute Intermission ~

Act II

Scene 1: *Four years earlier, a September afternoon*
Scene 2: *Present, same morning as Act I, Scene 4*
Scene 3: *The following day*
Scene 4: *Three and a half years earlier, winter*
Scene 5: *Present, a week after Act II, Scene 3*

Meiningens Executive Staff

Kristina Goebel, Co-Chair
Tiffany Roufs, Co-Chair
Johanna Farmer, Treasurer
Megan Losure, Secretary
Asha Agar, Historian
Siobhan Bremer, Faculty Advisor

The UMM Meiningens are a student theatre group dedicated to providing more opportunities for students to experience and create dramatic art. We would like to thank you for coming to this production, and we hope that you will join us again in the future.

Enjoy the show!

Production Staff

Director	Tiffany Roufs
Stage Manager	Lydea Aurentz
Technical Director	Sara Herman
Scenic Designer	Tim Hellendrung
Lighting Designers	Kristina Goebel
Lighting Assistant	Andrea Pletsch
Costume Designers	Margaret Dobie, Johanna Farmer
Sound Designer	David Wilson
Prop Master	Jane Wallace
Graphic Designer	Christopher Anderson
Costume Shop Supervisor	Siobhan Bremer
Costume Shop Floorperson	Liz Spohr
Scene Shop Supervisor	Adam Parboosingh
Scene Shop Floorperson	Mark Halvorson
Light Board Operator	Victoria L. Pyan
Sound Board Operator	Justin Navritil
Running Crew	Scott Bloom, Dwana Paplow, Jane Wallace
Publicity/Box Office Supervisor	Ray Schultz
Publicity/Box Office Assistants	Alyssa Herzog, Alexandra Kondrick
Senior Project Advisor	Siobhan Bremer
Costume Shop Work Study Staff	Margaret Dobie, Ann Tally, Melinda Voigt
Scene Shop Work Study Staff	Sara Herman, Dwana Paplow, Victoria L. Pyan, Ryan Rysavy, Alisha Saulnier, David Wilson

$$\exists (x_1, x_2)^T = x \neq 0 \in \mathbb{R}^2$$

proof was originally produced by the Manhattan Theatre Club on May 23, 2000. *proof* is produced at UMM through arrangement with Dramatists Play Service, Inc.

Special Thanks

Siobhan Bremer, Costume Shop Work Study Staff,
Morgan Erickson-Davis, Jayne Hacker, Mark Halvorson,
Erva and Ed Hance, Jeremy Hance, Rita Lambert,
The Morris Sun Tribune, Jenny Nellis, Adam Parboosingh,
Cindy Poppe, Judy Riley, Ryan Rysavy,
Scene Shop Work Study Staff, Ray Schultz, Liz Spohr,
Theatre Experience Class, UMM Meiningens,
The University Register, Norman and Eileen Wallace

Director's Notes

They are our teachers and our tormentors, our conscience and our reason for rebellion. They drive us crazy and are often our strongest link to reality. They are our parents, and we are their children.

It is this relationship that lies at the heart of David Auburn's *Proof*. While there are many relevant themes in Auburn's work, it is the relationship between Catherine and her father that motivates the majority of the play's action. The issues of heredity, pride, disappointment, responsibility, and love are evident within every scene of this piece, as well as in most of our own lives. One sign of a quality piece of theatre is its ability to move an audience on an intimate level, and I believe *Proof* accomplishes this beautifully. I hope you will feel the same. (On a personal note: I love you, Mom and Dad. Thanks for everything!)

Coming Attractions

An Evening of Fun Arts

A Meiningens Variety Show

7:30 p.m., December 13, 2004, Edson Auditorium

The Complete Works of Wllm Shksp(abbreviated)

by The Reduced Shakespeare Company

A Meiningens Production Directed by Kristina Goebel

February 16-18 & 20, 2005